Thank you for giving UL the opportunity to partner with you.
Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

Should you have any questions, after reviewing the material, or need to report any inaccuracies, please reach out to your UL representative or find UL contact details for your local Customer Service Department at https://www.ul.com/about/locations.

Please find attached the related material on Project

For your convenience, the below describes the related updates:

E158873-A6310-DescriptionUL
Figure-14-Total

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Times change, Trust Remains™

UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Listing
CCN:	AZOT, AZOT7 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	NETWORK INTERCOM
Model:	TID-A800
Rating:	PoE (48 Vdc), 0.27 A or 12 Vdc, 1.77 A
Applicant Name and Address:	HANWHA VISION CO LTD 6, PANGYO-RO 319BEON-GIL, BUNDANG-GU SEONGNAM-SI GYEONGGI-DO 13488 KOREA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

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Prepared By: Lawrence Lee / Project Handler Reviewed By: SeungTae Kim / Reviewer

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Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.

ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.

iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

NETWORK INTERCOM is designed for outdoor or indoor use, wall mount use with mounting brackets (Under 2m).

It is equipment supplied by UL listed PoE (Power over Ethernet) or DC input and installed by service personnel.

Model Differences

N/A

Test Item Particulars

Product group	end product
Classification of use by	Instructed person
Supply Connection	not mains connected: ES1
Supply tolerance	None
Supply connection – type	Not directly connected to the mains
Considered current rating of protective device	N/A
Equipment mobility	wall/ceiling-mounted
Over voltage category (OVC)	OVC I
Class of equipment	Class III
Special installation location	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified Tma (°C)	55 Outdoor: minimum -40
IP protection class	IP 65, 66, 67
Power systems	not AC mains
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	0.54

Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 55 °C
- The product is intended for use on the following power systems : No direct connection
- Considered current rating of protective device as part of the building installation (A) : N/A
- Mains supply tolerance (%) or absolute mains supply : No direct connection
- The Risk Group of a lamp or lamp system (including LEDs) is : Exempt
- The following are available from the Applicant upon request : Installation (Safety) Instructions / Manual
- The outdoor equipment was evaluated for use in an ambient range of: -40 °C to 55 °C

Additional Information

4792219670
- Maximum Normal Load:
Continuous operation. (Operate the camera through networked equipment with LED ON and speaker load 1/8 Pmax, volume 2) (For PoE input)
Continuous operation. (Operate the camera through networked equipment with LED ON and speaker load 1/8 Pmax, volume 2, 12 Vdc output load at 0.55 A) (For DC input)

Additional Standards

The product fulfills the requirements of: IEC 62471:2006, EN 62471:2008 (for LED)
IEC 60529:1989 +A1:1999+A2:2013 (for IP)

Markings and Instructions

Clause Title	Marking or Instruction Details
Equipment identification marking – Manufacturer identification	Listee's or Recognized Company's name, Trade Name, File Number
Equipment identification marking – model identification	Model Number
Equipment rating marking – ratings	Input Ratings (voltage, current)
Outdoor enclosure type	Rainproof
Hard Copy	A. IMPORTANT or ATTENTION or similar wording B. Please check 'Manuals' from out website, before connecting to the supply. C. Company website URL (https://www.~~) or QR cord.
(Website) Manual - 1	This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2".

(Website) Manual - 2	The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3.af shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL 60950-1 or PS2 as defined in UL 62368-1.
SCC requirement	If the signal words DANGER, WARNING, and CAUTION are included, a French manual is provided.
Special Instructions to UL Representative N/A	

BD1.0	TABLE: Production-Line Testing Requirements					
BD1.1	**Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.**					
Model	Component	Removable parts	Test probe location	Test V rms	Test V dc	Test Time, s
N/A	N/A	N/A	N/A	N/A	N/A	N/A
BD1.2	**Earthing Continuity Test Exemptions – This test is not required for the following models:**					
	All model					
BD1.3	**Electric Strength Test Exemptions – This test is not required for the following models:**					
	All model					
BD1.4	**Electric Strength Test Component Exemptions – The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test.**					
	All model					

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL				
Model	Component	Material	Test	Sample (s)	Test Specifics
N/A	N/A	N/A	N/A	N/A	N/A

4.1.2	TABLE: List of critical components					Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Product Category CCN(s)	Mark(s) of conformity	Supplement ID
Enclosure - FRONT (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 1.0 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Enclosure - REAR (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 1.9 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Mounting bracket (Metal)	Interchangeable	Interchangeable	Aluminum, Min. 2.5 mm thickness, See enclosure for dimension.	-	Tested in equipment	
Internal Metal Part Materials	Interchangeable	Interchangeable	Aluminum, Min. 1.0 mm thickness,	-	Tested in equipment	
Enclosure – Deco Dome (Plastic)	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min. 1.5 mm thickness, rated Min. V-0, RTI min 130 deg. C	QMFZ2	UL (E115797)	
Enclosure – Deco Front (Plastic)	LOTTE CHEMICAL CORPORATION	HN-1068(f1)	Min. 1.5 mm thickness, rated Min. V-0, RTI min 130 deg.	QMFZ2	UL (E115797)	
COVER DOME (BUBBLE)	MITSUBISHI ENGINEERING-PLASTICS CORP	S-2000V+(f1)	Min. 2.0 mm thickness, rated Min. V-2, RTI min 115 deg. C	QMFZ2	UL (E41179)	
Button appearance Enclosure (Plastic) (2-shot injection molding)	LOTTE CHEMICAL CORPORATION Samyang Corporation	HN-1068(f1) 3020HF	Min. 1.5 mm thickness, rated Min. V-0, RTI min 130 deg. Min. 1.5 mm thickness, rated Min. V-2, RTI min 125 deg.	QMFZ2 QMFZ2	UL (E115797) UL (E121254)	

Window LED (Plastic)	LG CHEM	LUMIPLAS LD7(xx)0(m)(Type: LD-7650)	Min. 0.8 mm thickness, rated Min. V-2, RTI min 80 deg. C	QMFZ2	UL (E67171)	
Speaker	HOSEN	PS2-610-HF	5 W, 4 ohm	-	Tested in equipment	
Fuse (F1)	LITTELFUSE INC	449*	125 V, 2.5 A	JDYX2	UL (E10480)	
Fuse (F2, F3)	LITTELFUSE INC	1812L150/24	PTC, 24 V, rated trip current 1.5 A, 85 deg. C	XGPU2	UL (E183209)	
Transformer(T2)	SHENZHEN GROUP-TEK ELECTRONICS TECHNOLOGY CO.，LTD	PDT25310SR	150 uH, 130 deg. C, See enclosure for more detail.	-	Tested in equipment	
Opto-coupler (LS1)	LITE-ON Technology Corporation	LTV-217	Isolation Voltage: 3750. Max. Operation Temperature:110 deg. C	FPQU2	UL (E113898)	
Relay (RLY1)	IXYS INTEGRATED CIRCUITS DIV	LC(Type: LCA715S)	Isolation Voltage: 3750. Max. Operation Temperature: 85 deg. C	FPQU2	UL (E76270)	
Rechargeable battery (BAT1)	SEIKO INSTRUMENTS INC MICRO-ENERGY DIV	ML414H	Lithium, Rechargeable, Max Charging Voltage, 3.4 V dc, Max Charging current: 300 mA	BBCV2	UL (MH15628)	
Lithium Battery Protection Circuit	Interchangeable	Interchangeable	Diode (D6, 80 V, 150 mA) and Resistor (R163, 3.3Kohm) in series	-	Tested in equipment	
Thermal pad	KOMOTECH	KGP-1(a)	Min. 1.0 mm thickness, rated V-0, 150 deg. C	QMFZ2	UL (E245303)	

PWB	EXPRESS ELECTRONICS LTD	14MV0	Min. V-0, 130 deg. C	ZPMV2	UL (E157925)	
PWB - Alternate	KI JOO INDUSTRIAL CO LTD	KJ4-V-0-2	Min. V-0, 130 deg. C	ZPMV2	UL (E111636)	
PWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 130 deg. C	ZPMV2	UL	
FPWB	SIFLEX	T1	Min. V-0, 80 deg. C	ZPXK2	UL (E218849)	
FPWB - Alternate	Interchangeable	Interchangeable	Min. V-0, 80 deg. C	ZPXK2	UL	
Outdoor Label	Interchangeable	Interchangeable	Suitable for use on each type of surface to which applied, rated for maximum and minimum surface temperature specified, or Min. -40 deg. C to Max. 55 deg. C if not specified.	PGDQ2 or PGJI2 and PGAA	UL	
White LED (LED board) (LD1)	LITE-ON Technology Corporation	LTW-193ZDM5	VF=Max. 3.10 V, IF=Max. 20 mA	-	Tested in equipment	
RGB LED (Button board) (LD2, LD3, LD4)	ams-osram	LTRB RASF.01	VF=Max. 2.70 V, IF=Max. 30 mA	-	Tested in equipment	

Enclosures

Type	Supplement Id	Description
Photographs	03-01	External View - 1
Photographs	03-02	External View - 2
Photographs	03-03	Interanl View
Photographs	03-04	LED Board
Photographs	03-05	Sensor Board
Photographs	03-06	Network Board - Top
Photographs	03-07	Network Board - Bottom
Photographs	03-08	Power Board - Top
Photographs	03-09	Power Board - Bottom
Photographs	03-10	Speaker
Manuals	06-01	Manual
Miscellaneous	07-01	Transformer (T2) Specification
Miscellaneous	07-02	Line Filter (L1) Specifiation
Miscellaneous	07-03	Label

The following Page(s) are related to Manuals-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean the contaminated area on the product surface with a soft, dry cloth or a damp cloth.
   (Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
7. Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product is intended to be supplied by a Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from 12 Vdc, 1.77A / PoE (48 Vdc), 0.27A.
16. This product is intended to be supplied by isolation power.
17. If you use excessive force when installing the product, the intercom may be damaged and malfunction.
    If you forcibly install the intercom using non-compliant tools, the intercom may be damaged.
18. Do not install the product in a place where chemical substances or oil mist exists or may be generated. As edible oils such as soybean oil may damage or warp the product, do not install the product in the kitchen or near the kitchen table.
    This may cause damage to the product.
19. When installing the product, be careful not to allow the surface of the product to be stained with chemical substance.
    Some chemical solvents such as cleaner or adhesives may cause serious damage to the product's surface.
20. If you install/disassemble the product in a manner that has not been recommended, the production functions/ performance may not be guaranteed.
    Install the product by referring to "Installation & connection" in the user manual.
21. Installing or using the product in water can cause serious damage to the product.
22. Although a rapid change in temperature could cause frost inside the dome, there will be no problem with the video.
23. This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunderstroke, communication interruption.
24. The operating temperature of the product is -40°C to +55°C (-40°F ~ +131°F).

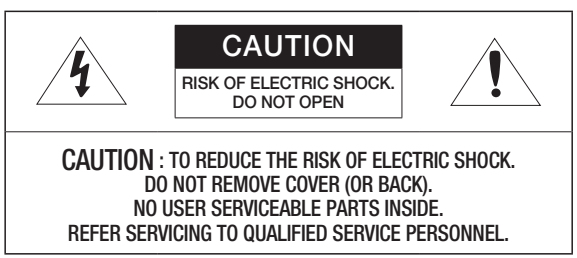
WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

To prevent injury, this apparatus must be securely attached to the Wall/ceiling in accordance with the installation instructions.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Class I construction

An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

Battery

Batteries(battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

The battery cannot be replaced.

Prohibition of battery abuse

- Do not install and use the wrong type of battery.
- Do not leave the battery in a mechanically crush or cut it because it can explode.
- Do not leave the battery in a high temperature environment.
- Do not leave the battery in a low-pressure environment.

Disconnection Device

Disconnect the main plug from the apparatus, if it's defected. And please call a repair man in your location.

When used outside of the U.S., it may be used HAR code with fittings of an approved agency is employed.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT.
METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.

CAUTION

These servicing instructions are for use by qualified service personnel only.
To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Please use the input power with just one intercom and other devices must not be connected.

Before connecting the Power Terminal Block, you need to unplug the power plug from the outlet first.

The ITE is to be connected only to PoE networks without routing to the outside plant.

The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3.af shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.

Unit is intended for installation in a Network Environment 0 as defined in IEC TR 62102. As such, associated Ethernet wiring shall be limited to inside the building.

Please read the following recommended safety precautions carefully.

- Do not place this apparatus on an uneven surface.
- Do not install on a surface where it is exposed to direct sunlight, near heating equipment or heavy cold area.
- Do not place this apparatus near conductive material.
- Do not attempt to service this apparatus yourself.
- Do not place a glass of water on the product.
- Do not install near any magnetic sources.
- Do not block any ventilation openings.
- Do not place heavy items on the product.
- Please wear protective gloves when installing/removing the intercom.
  The high temperature of the product surface may cause a burn.

User's Manual is a guidance book for how to use the products.

The meaning of the symbols are shown below.

- Reference : In case of providing information for helping of product's usages
- Notice : If there's any possibility to occur any damages for the goods and human caused by not following the instruction

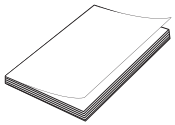
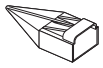
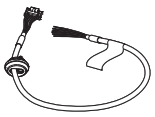
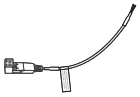
※ Please read this manual for the safety before using of goods and keep it in the safe place.

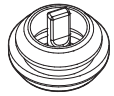
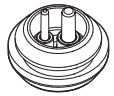
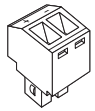
We do not guarantee the quality of third-party products (e.g. lenses, accessories) that you separately purchase.

In particular installation environments, there might be interference in radio communications. When interference of electromagnetic waves occurs between the product and radio communication device, it is recommended to keep a certain distance between the two or change the direction of the receiving antenna.

WHAT'S INCLUDED

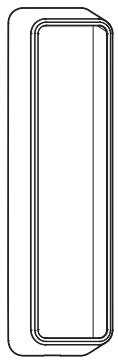
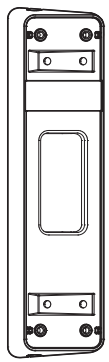
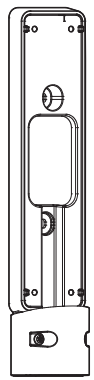
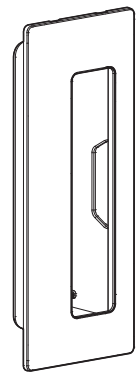
Please check if your intercom and accessories are all included in the product package.
(As for each sales country, accessories are not the same.)

Appearance	Item Name	Quantity	Description
	Intercom	1	
	Quick Guide (Optional)	1	
	Torx L wrench	1	To remove/fix the Mount plate
	Cap Installer	1	Used to connect the RJ45 network cable
	Alarm Cable	1	Used when connecting to an alarm
	Power cable	1	Used to connect to power terminal block

Appearance	Item Name	Quantity	Description
	Cable bushing	1	Extra cable bushing for network cable installation.
		1	Extra cable bushing to connect to power and alarm terminal blocks
	Power Terminal Block	1	Plugged in the Power Port (DC 12 V)

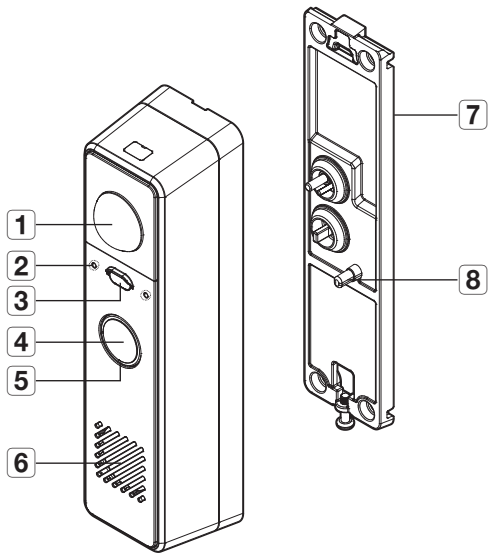
OPTIONAL ACCESSORIES FOR INSTALLATION

You can purchase appropriate optional accessories available.

Product type	Skin Cover	Tilt mount	Back Box	Flush mount
Model Name	SBC-1990W (White)	SBS-1990TM	SBS-1990B	SHS-1990F
				

AT A GLANCE

Appearance



Item	Description
1 Lens	Camera Lens for the intercom.
2 Built-in Mic	Built-in mic picks up sound.
3 White LED	Used as an auxiliary light to illuminate the surroundings during calls and events.
4 Call Button	The call button for calling.
5 LED status indicator	LED indicator shows operational status with colors. *
6 Speakers	Outputs audio transmitted from the connected device.
7 Mount plate	The mount plate for installation.
8 Tampering switch depressor	Using the tampering switch, you can detect when the product is somehow separated.

*** LED status**

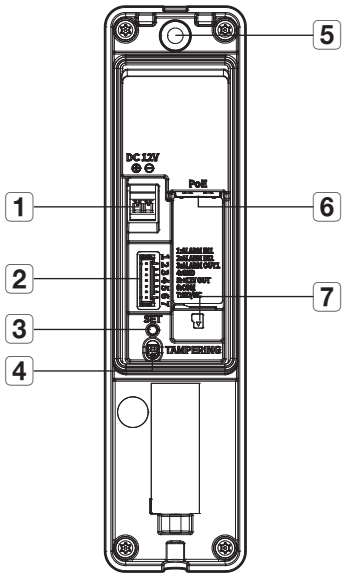
LED indicator shows operational status with colors.
Refer to table below for detailed meaning of the LED indicator.

Color	Type	Status
Blue	Steady	Idle
Blue	Blink	Call button push & call wating
Blue	Slow blink	Calling
Green	Steady	Relay activation
Red/Orange	Steady	Booting up
Red	Blink	Communication error
White	Steady	Firmware update

* In Cloud Service Registration Mode

Color	Type	Status
Amber	Slow blink	Connection in progress
Green	Slow blink	Connection complete Waiting for device claim
Green	Steady	Device claim complete (LED off after 5 minutes)
Red	Steady	Connection fail
Red	Blink	Communication error
White	Steady	Firmware update

Inside



Item	Description
1 Power port (DC 12V)	Port for power terminal block.
2 Alarm cable port	Used to connect the alarm input/output devices including electric door locks.

Pin	Label	Description
1	ALARM IN 1	Digital Alarm Input 1
2	ALARM IN 2	Digital Alarm Input 2
3	ALARM OUT 1	Digital Alarm Output 1
4	GND	A ground used with Alarm Input 1 (Pin 1), 2 (Pin 2), Alarm Output 2 (Pin 7) or Common (Pin 6)
5	12V OUT	A positive 12v DC output that can be used in various I/O configurations when the intercom is powered with external 12v DC power supply. When powered with PoE, Pin 5 is inactive.
6	COM	A common pin that is used in various configurations with Alarm Output 2 (Pin 7)
7	NO/NC (ALARM OUT 2)	Alarm Output 2 (Pin 7) is used as a Dry Contact Relay.

* Wiring diagrams can be found on pages 19-25.

Item	Description
3 SET Button	Press the SET button for about 5 seconds to reset the intercom settings to factory defaults and then reboot. ! If you reset the intercom, the network settings will be adjusted so that DHCP can be enabled. If there is no DHCP server in the network, you must run the ConfigPro to change the basic network settings such as IP address, Subnet mask, Gateway, etc., before you can connect to the network.
	Press the SET button 3 times quickly (within 6 seconds) to activate Cloud service registration mode.
4 Tampering Switch	Sensor module that triggers alarm when the device is physically damaged or stolen. To use this function, <Tampering switch> needs to be enabled in the web viewer settings menu.
5 Gore sheet	Waterproof/dampproof sheet for the holes where the sheet is attached. ! Never remove this since it is a waterproof sheet.
6 Network Port	Used to connect the PoE or Ethernet cable for network connection.
7 Micro SD card slot	Compartment for the Micro SD card.

INSTALLATION

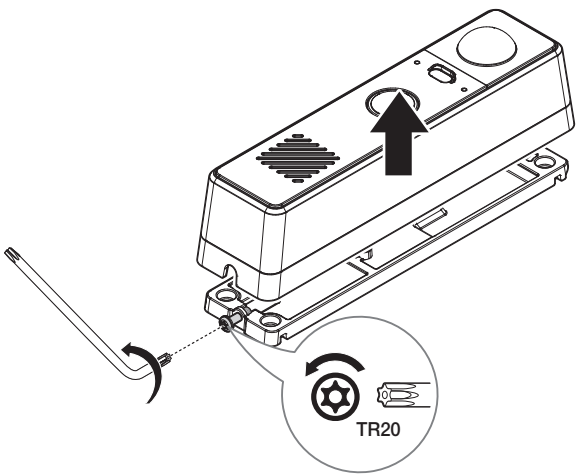
Precautions before installation

Ensure you read out the following instructions before installing the intercom:

- Select an installation site that can hold at least 5 times the intercom's weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site.
  And put aside personal belongings from the site, just in case.
- If the product is installed with excessive force, it may cause damage to the intercom due to malfunction.
  Forcing assembly using non-compliant tools may damage the product.

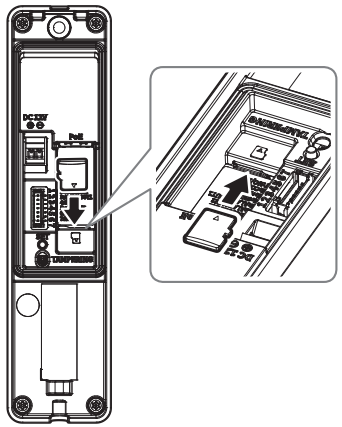
Disassembling

1. Using the provided Torx L wrench, turn the screws on the bottom of the product counterclockwise and release the mount plate.



Inserting a Micro SD card

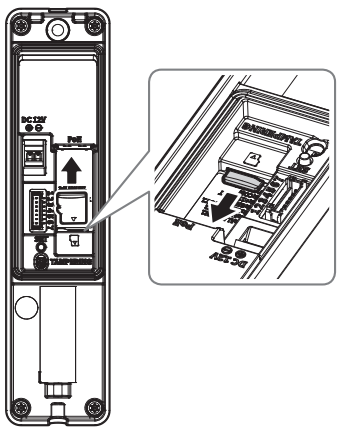
Slide the Micro SD card into the Micro SD card slot on the intercom in the direction of the arrow.



- Before installing the intercom, the Micro SD card should be inserted while the power source and the body are separated.
- Do not forcefully insert it in the reverse direction. It might damage your Micro SD card and your product.
- When it rains or the humidity is high, insertion or ejection of a Micro SD card is not recommended.
- Disassembly of the product cover should be finished within 5 minutes, or there will be the risk of internal dew condensation.
- Make sure the SD card clicks into place and is secured when pushed all the way in.
  If the SD card is not completely inserted, it may not be recognized properly.

Removing a Micro SD card

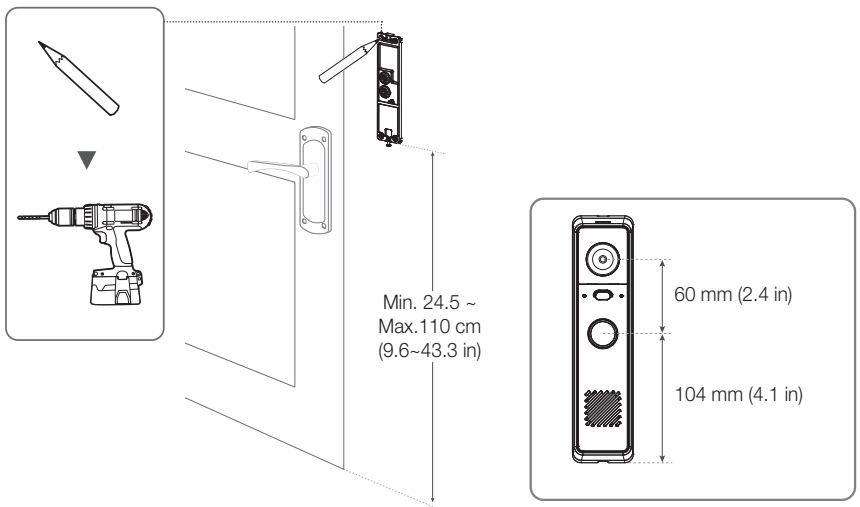
Gently press down on the exposed end of the Micro SD card as shown in the diagram to eject the Micro SD card from the slot.

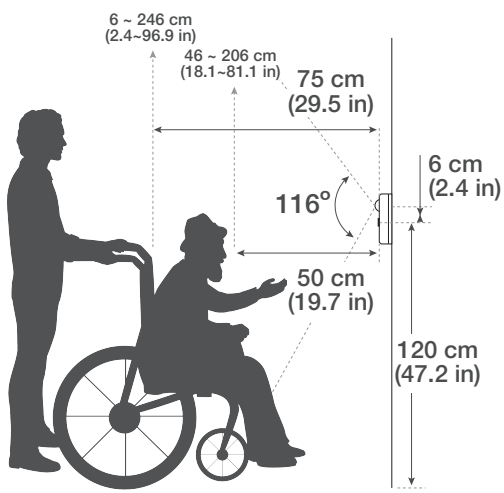


- Before removing the Micro SD card, in <**Setup (⚙)**>-<**Event**>-<**Storage**>, set the device to <**Off**> and press the [**Apply**] button and turn the intercom off.
- If you turn off the intercom or remove the Micro SD card that contains data from the product, the data may be lost or damaged.

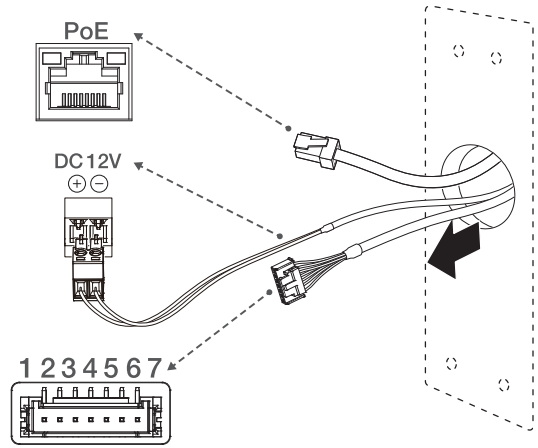
Installing the intercom on the wall

1. Place the mount plate on the desired location considering the direction to be monitored, mark the locations for the screw holes and cable holes, and then drill the holes.

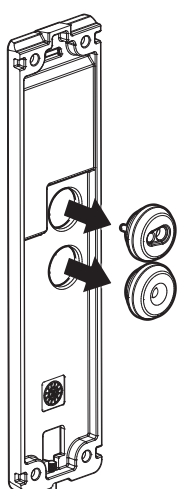




2. Pass the alarm/power cable and the network cable through the hole.



3. Remove the cable bushing from the mount plate.

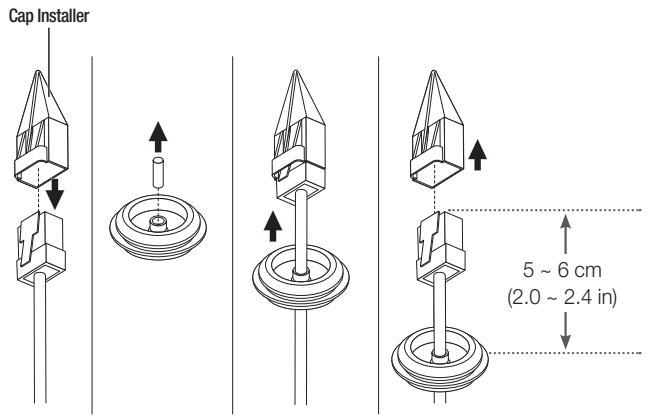


[Installing the network cable]

- The diameter of the network cable is Ø5~6.5.

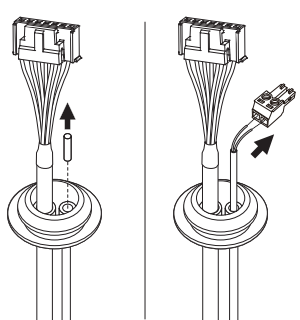
4. Pull off the extruded parts of the cable bushing to be used.

5. Use the cap installer to route the network cable through the cable bushing.



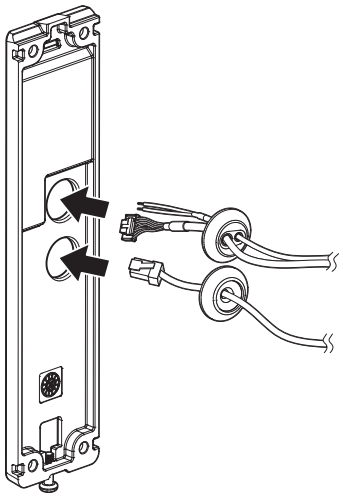
[Installing power and alarm I/O cables]

6. (When using DC 12 V power) Route the power cable through the small hole of the cable bushing and connect it to the provided terminal block.

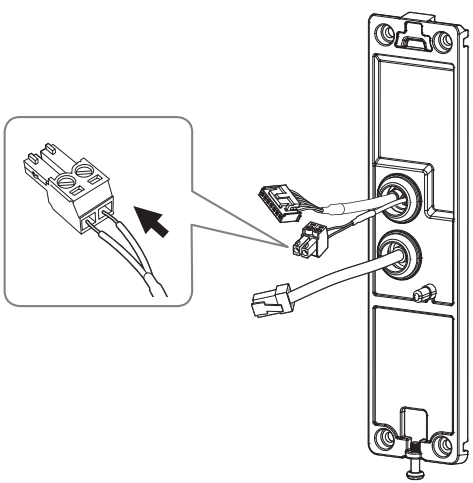


- When power input is connected with PoE only, do not tear off the extruded part of the small hole in the cable bushing.
- The DC power and alarm cables provided together must be used.

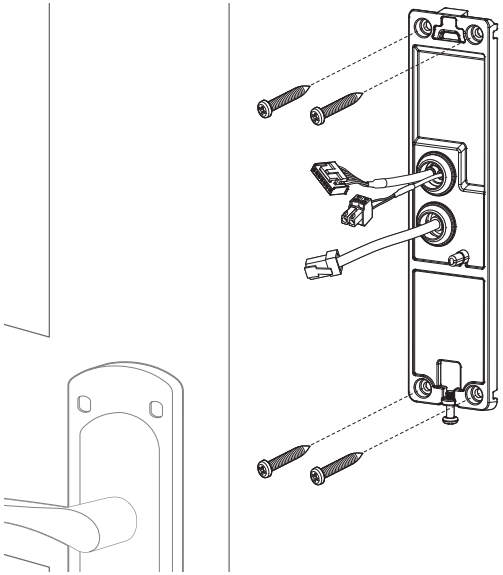
7. Insert the bushing of the alarm cable in the top hole of the mount plate, and the bushing of the network cable in the bottom hole.



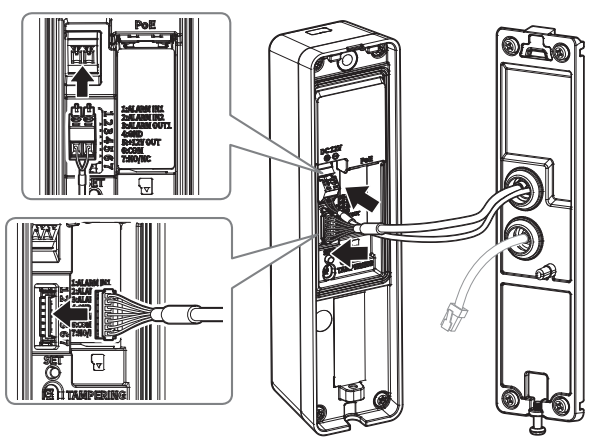
8. Connect the power terminal block to the power cable.



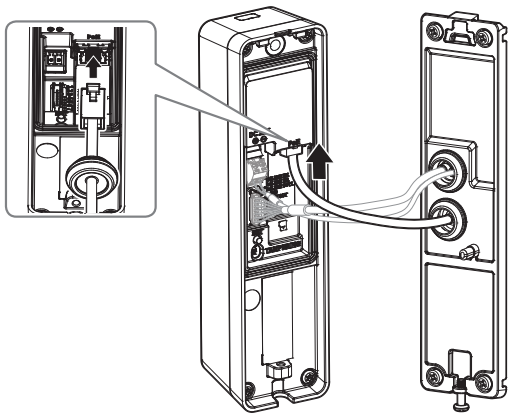
9. Fix the mount plate using appropriate screws. (M4.5xL50).



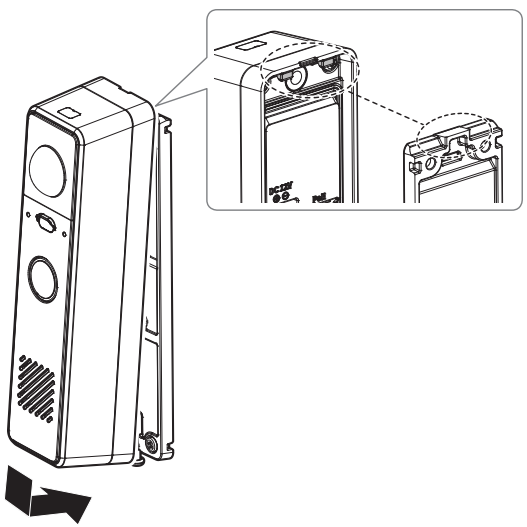
10. Connect alarm and power terminal blocks to the corresponding ports.



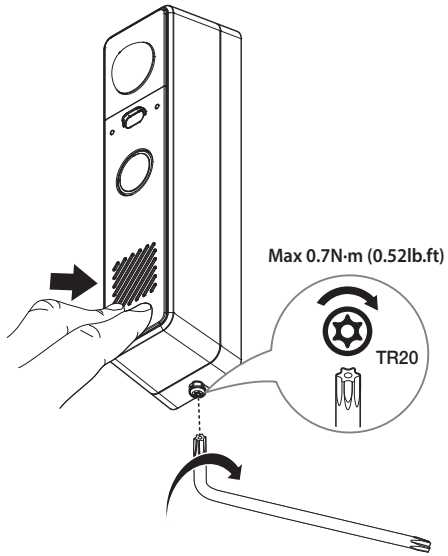
11. Connect the network cable to the network port.



12. Join the camera body to the mount plate.



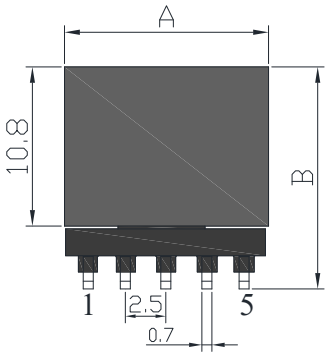
13. Tighten the screw while pushing the bottom part of the camera body.



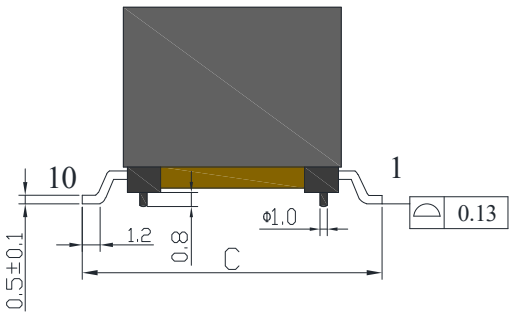
The following Page(s) are related to Miscellaneous-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

2. EXTERNAL DIMENSIONS: UNIT: mm

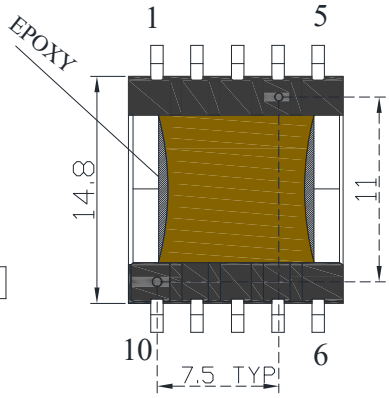
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



Note:

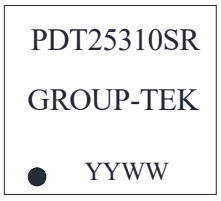
1.Wrap 2Ts of 7mm kapton tape around the finished part.

2.Fixed the cores with glue,and fixed the case with glue.

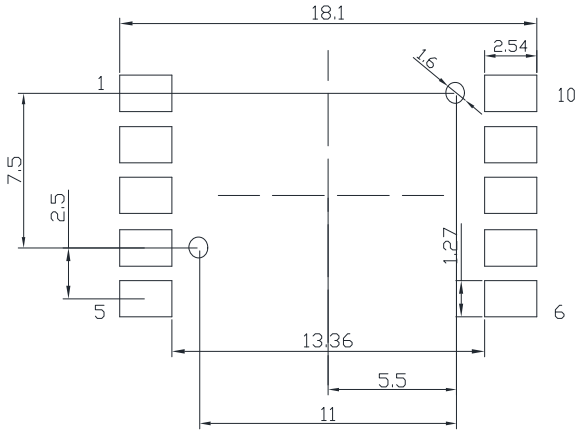
Unit: mm Tolerances:

A Max	B Max	C Max
15.2	14.8	17.8

Marking information



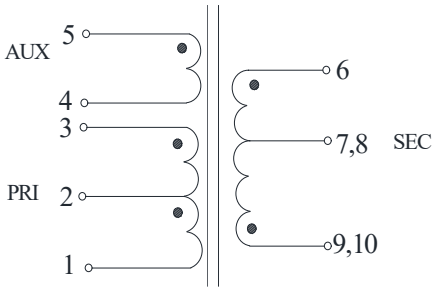
Suggested PCB Pad Lad Layout



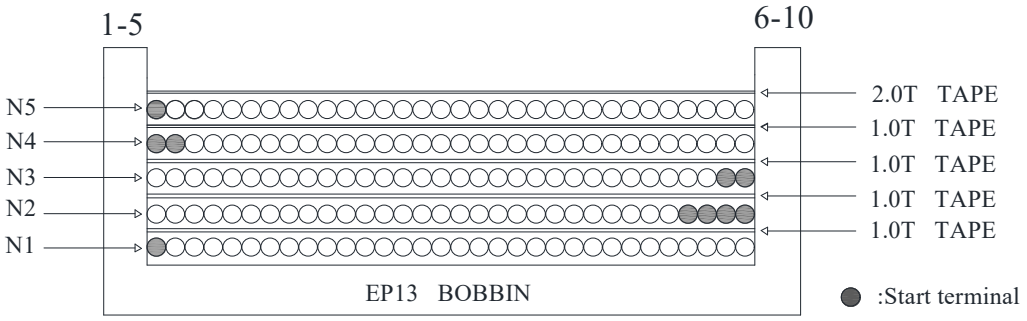
3. Electrical Characteristics :

Specifications: at 25 degree C. Operating Temperature -40 to +125°C			
NO	ITEM	TEST CONDITION	SPECIFICATION
1	Inductance	(3-1) @25℃ 100KHZ/0.1V	150uH±10%
2	Leakage Inductance	(3-1)@25℃250KHZ/0.1V shorted other pins	1.5uH MAX
3	DCR	(3-1)@25℃	250mΩ MAX.
4		(9,10-7,8)@25℃	15mΩ MAX.
5		(5-4)@25℃	430mΩ MAX.
		(6-7)@25℃	430mΩ MAX.
6	TURNS RATIO	（3-1）:（9,10-7,8）:(6-7)： （5-4）20KHZ/1.0V	24:4:4:8±3%
7	HI-POT:	PRI TO SEC	1500V/AC/5mA 3Sec

5. Schematic:



6. winding detail:



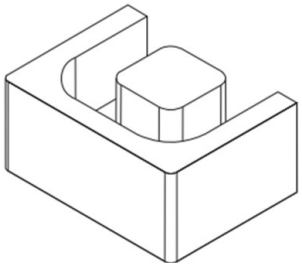
7. Winding Information:

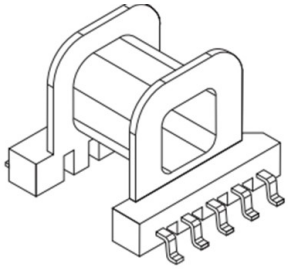
WINDING SEQ.	ST-FN	WIRE/FOIL	TURNS	WRAP INSUL.	MARGIN TAPE	SLEEVE	NOTE
1	3--2	1*0.32mm 2UEW	12TS	1T w8.0mm	N/A	N/A	1
2	9，10-7，8	4*0.32mm 2UEW	4TS	1T w8.0mm	N/A	N/A	1
3	6--7	2*0.1mm 2UEW	8TS	1T w8.0mm	N/A	N/A	1
4	5--4	2*0.1mm 2UEW	8TS	1T w8.0mm	N/A	24#	1
5	2--1	1*0.32mm 2UEW	12TS	2T w8.0mm	N/A	N/A	1

NOTE ：

1.Place the bobbin pin 1 left side of operator.

2.This product has many secondary wire roots, allowing parallel PIN tin connection.（此产品次级线根数多，允许并联 PIN 连锡 7-8。）







8. Material List：

NO	ITEM	MATERIALS	SUPPLIERS	UL FILE NO.
1	BOBBIN	PHENOLIC PM9630 UL RATING: 94V-0	Sumitomo Bakelite CO.,LTD.	E41429
2	CORE	E P13 PC95/TP2A	Dongguan zhuoci Electronics CO.,LTD	N/A
3	WIRE	POLYURETHANE ENAMELED TYPE NO: 2UEW THERMAL RATING:180°C	Shing Shun Magnet wire(HuiZhou) Co.,Ltd	E255839
4	TAPE	ADHESIVE POLYESTER TAPE TYPE NO.:PB416F THERMAL RATING:180° C	CHYUN YIH TAPE CO,LTD	E81174
5	SOLDER	SN/CU: 99.3/0.7	Gao Xin stannum industry Co.,Ltd	N/A
6	Glue	E-500(XX)	Dong Guan city eatto electronic material Co.,Ltd	E218090
7	CASE	PHENOLIC T375J UL RATING: 94V-0 THERMAL RATING:150°C	CHANG CHUN PLASTIC CO LTD.	QMFZ2.E59481

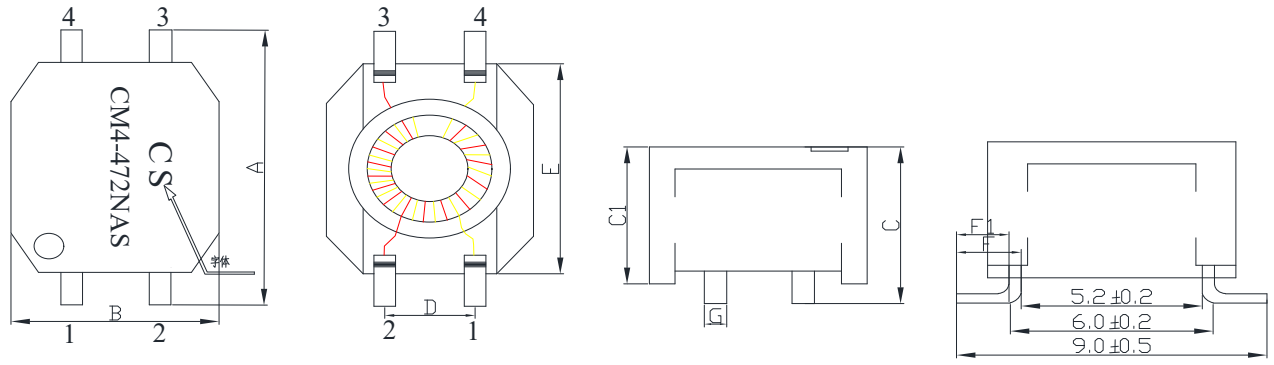
The following Page(s) are related to Miscellaneous-02. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

二. ELECTRICAL CHARACTERISTICS:

PART NUMBER	Turn Ratio@ (1-4):(2-3)	INDUCTANCE @10KHz,0.1V (1-4)=(2-3)	RDC (1-4)=(2-3) (ΩMax)	Rated Current IRMS△T≤40℃	HI-POT 2mA/2sec(Vrms) (1+4)-(2+3)
CM4-472NAS	1:1±3%	4.7mH +50%-30%	0.75Ω	0.7AMax	1000V/AC

Operating temperature range: -40° C to +125° C
Storage temperature range: -40℃ to +125℃

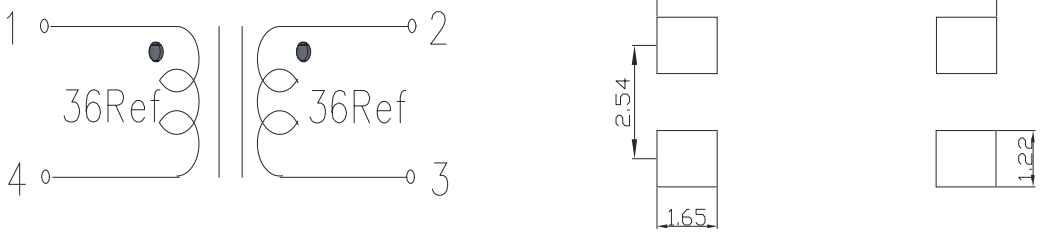
三. EXTERNAL DIMENSIONS: UNIT: mm



产品共面度＜0.13mm

Item	A	B	C	C1	D	E	F	F1	G
mm	9.0±0.5	5.9±0.3	5.7Max	4.55±0.3	2.54±0.2	7.0±0.3	1.8±0.1	1.4±0.1	0.6

四： CIRCUIT



五. MATERIAL LIST:

NO	ITEM	MATERIAL	SUPPLIER OF THE MATERIAL	UL CARD
1	CORE	Ferrite KL10	HUIZHOU KELI MAGNETICS CO,LTD	N/A
2	WIRE	POLYURETHANE ENAMELED THERMAL RATING:180° 2UEW	Shing Shun Magnet wire (hui zhou)co,Ltd	E255839
3	CASE	WH-9100	WAH HONG INDUSTRIAL CORP	E150608
4	SOLDER	Sn99.3%：cu0.7%	GAO XING STANNUMINDUSTY CO,LTD	N/A

NETWORK INTERCOM, TID-A800

DC 12V⎓ IN: DC 12V⎓1.77A/PoE IN: PoE(48V⎓)0.27A

DC 12V⎓ OUT: DC 12V⎓0.55A

M/C: TID-A800/KEX Fac.ID:D

DATE S/N: Serial No.

MAC ADDRESS: XX-XX-XX-XX-XX-XX

CAN ICES-3(A)/NMB-3(A)

HANWHA VISION CO.,LTD.

MADE IN KOREA

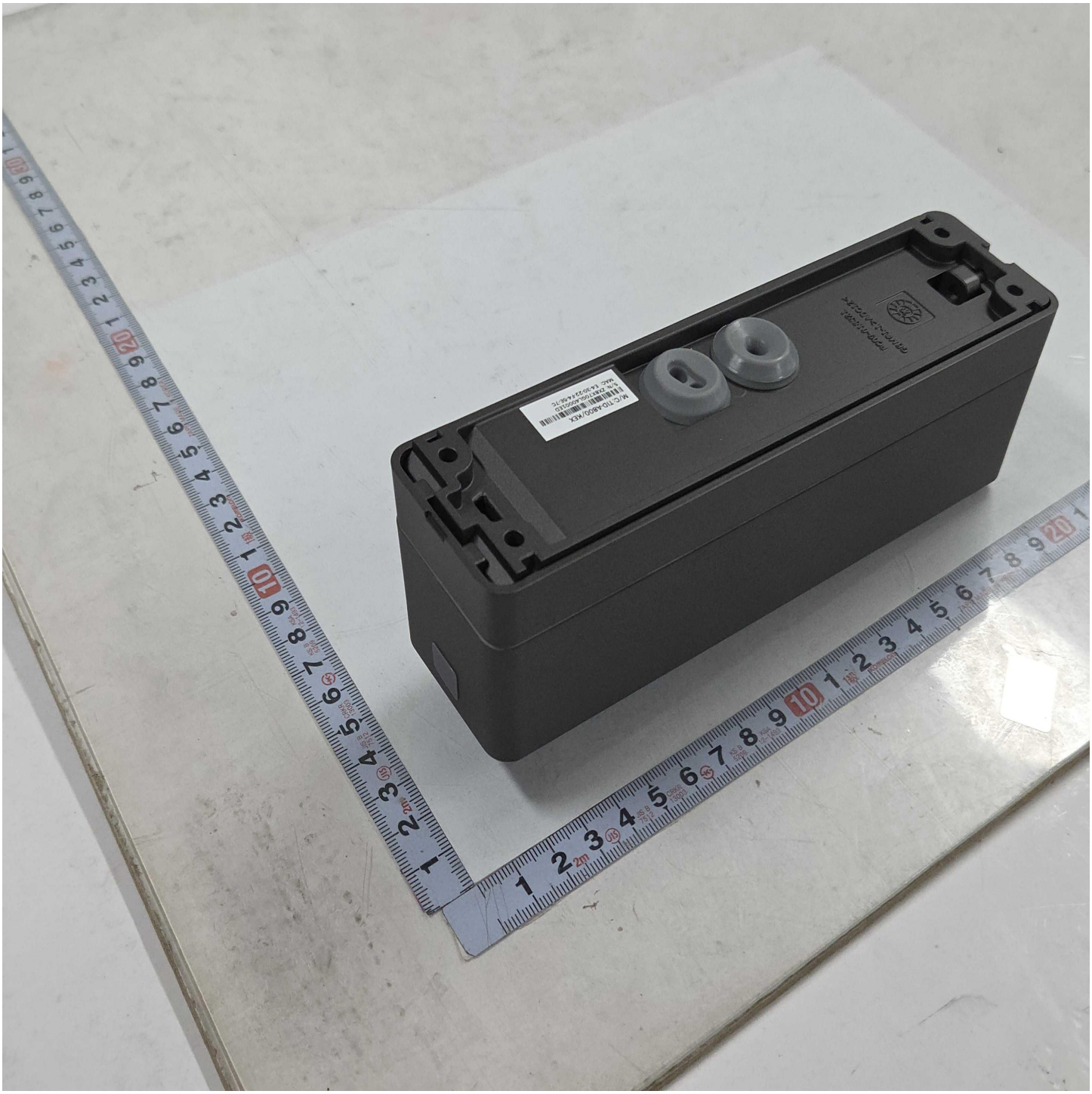
ITE
US LISTED
9T96 E158873

Rainproof/Étanche
IP65/IP66/IP67

Photographs-01 Page-1



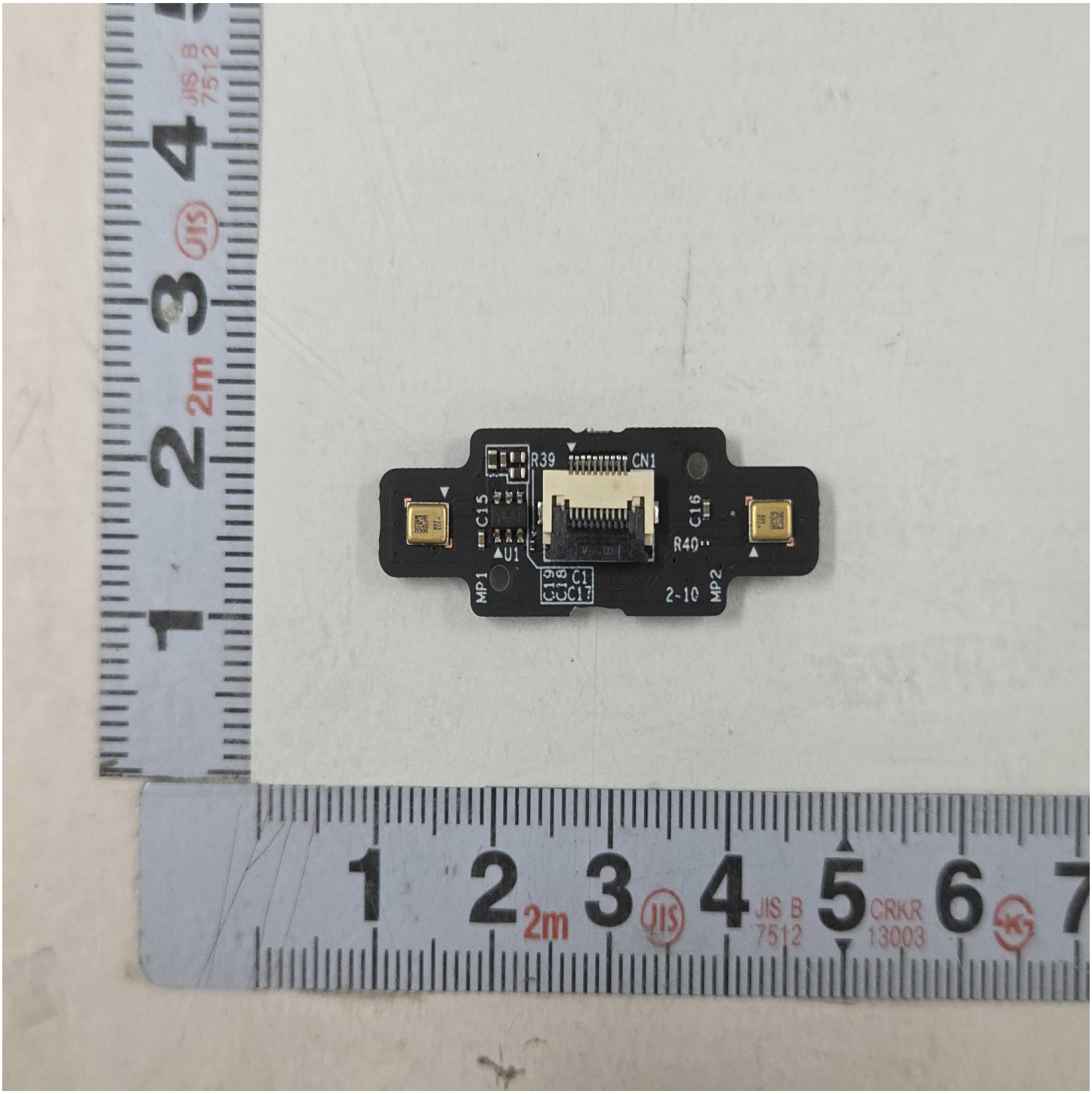
Photographs-02 Page-1



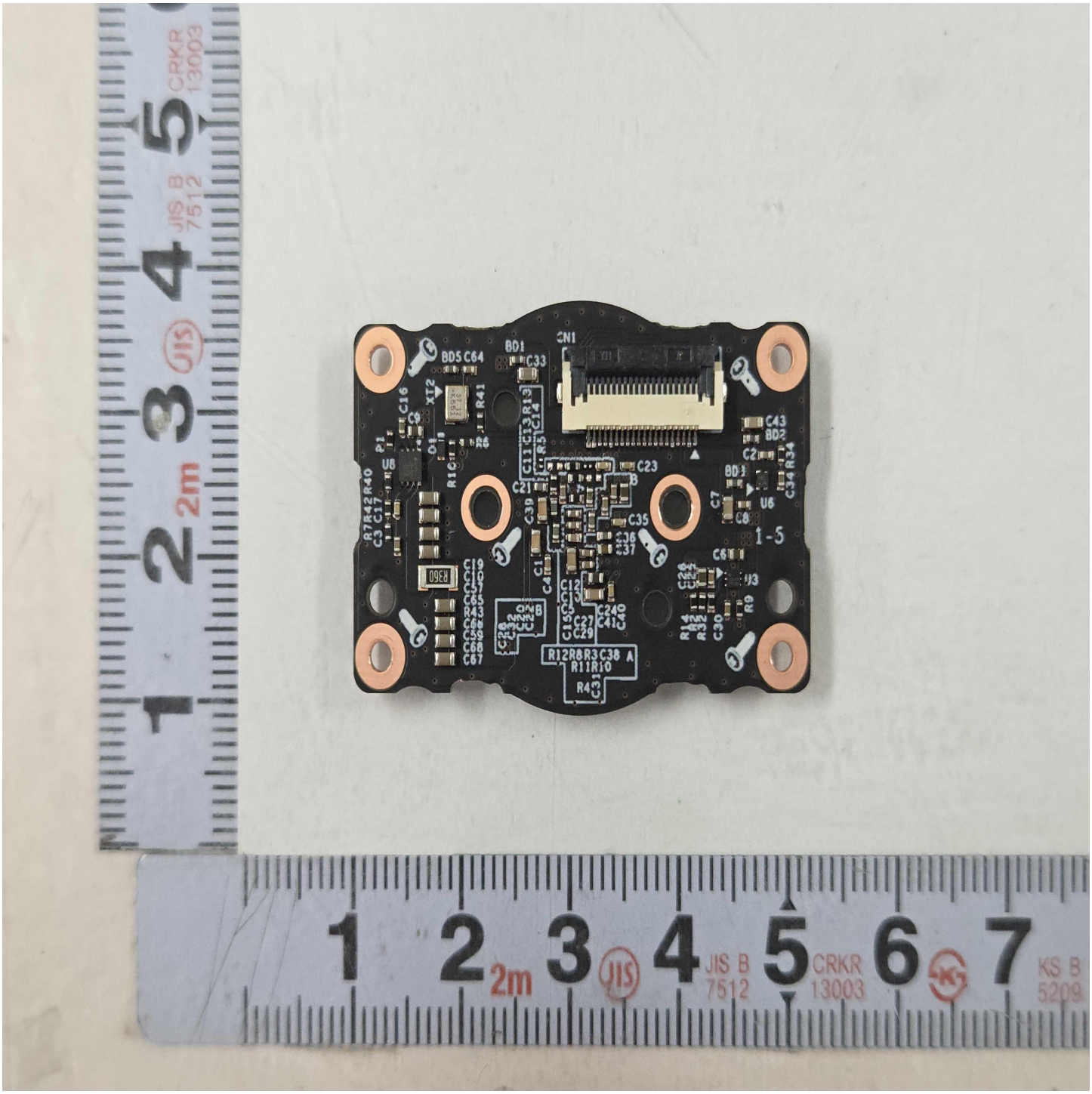
Photographs-03 Page-1



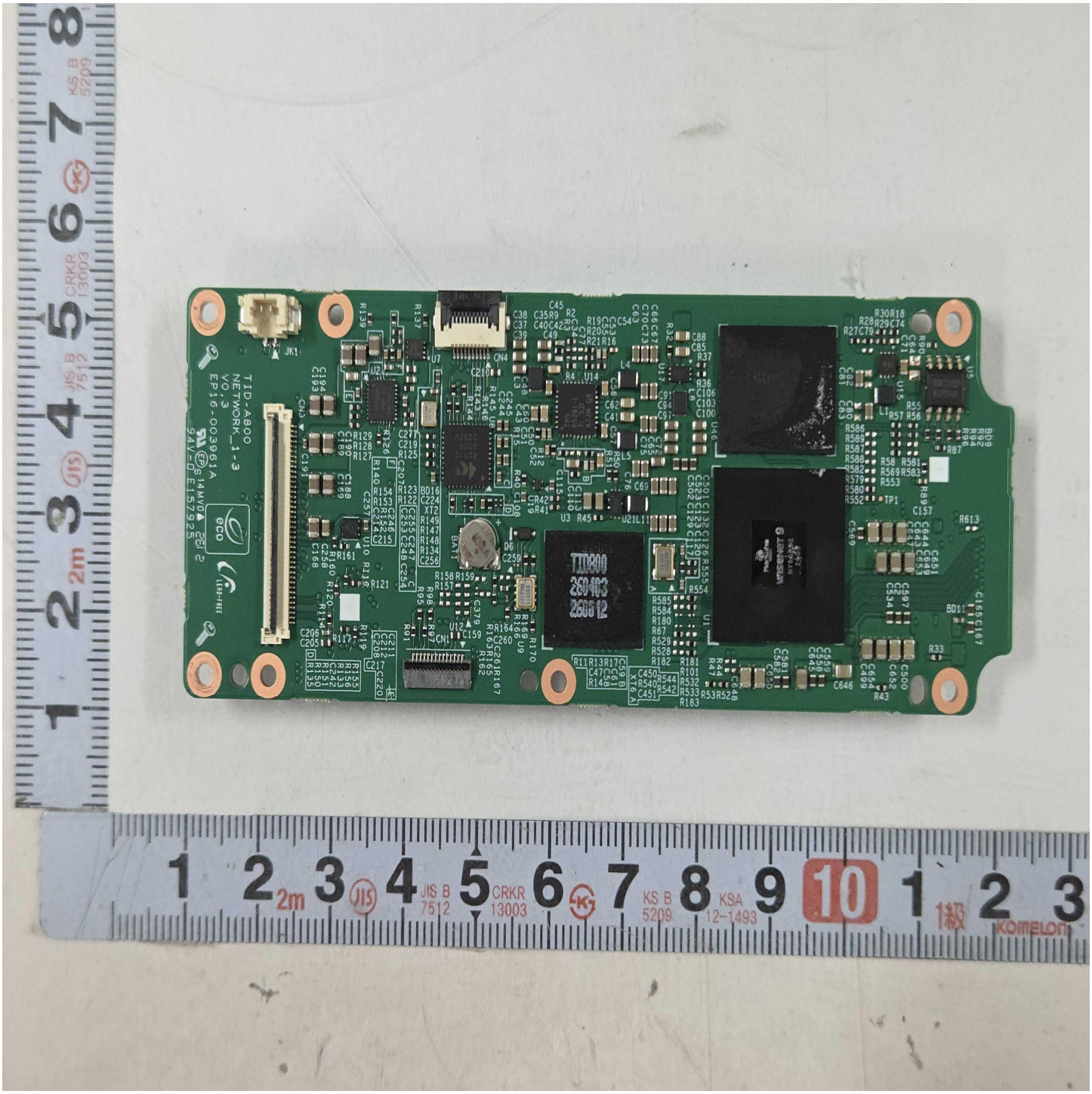
Photographs-04 Page-1



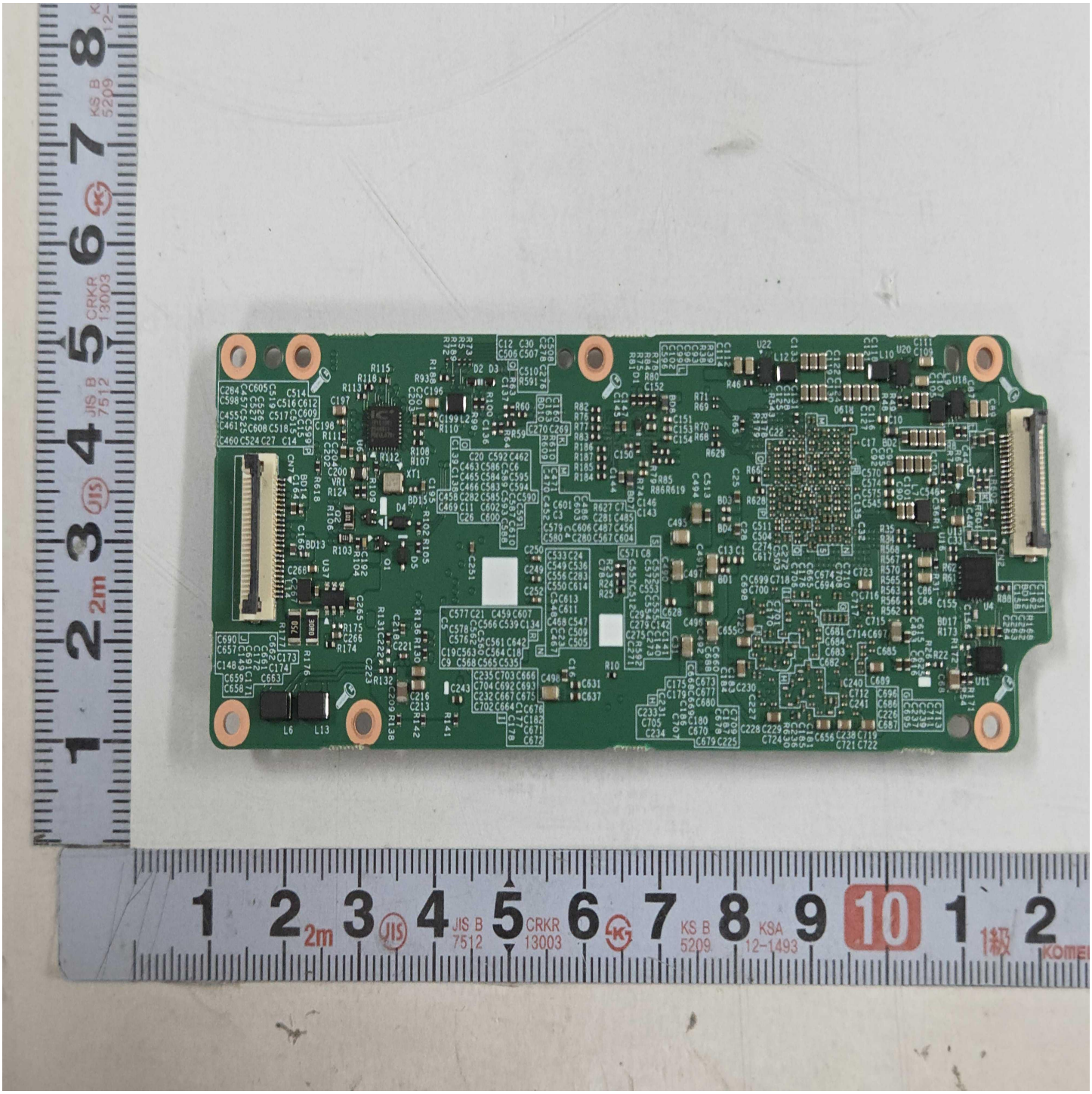
Photographs-05 Page-1



Photographs-06 Page-1



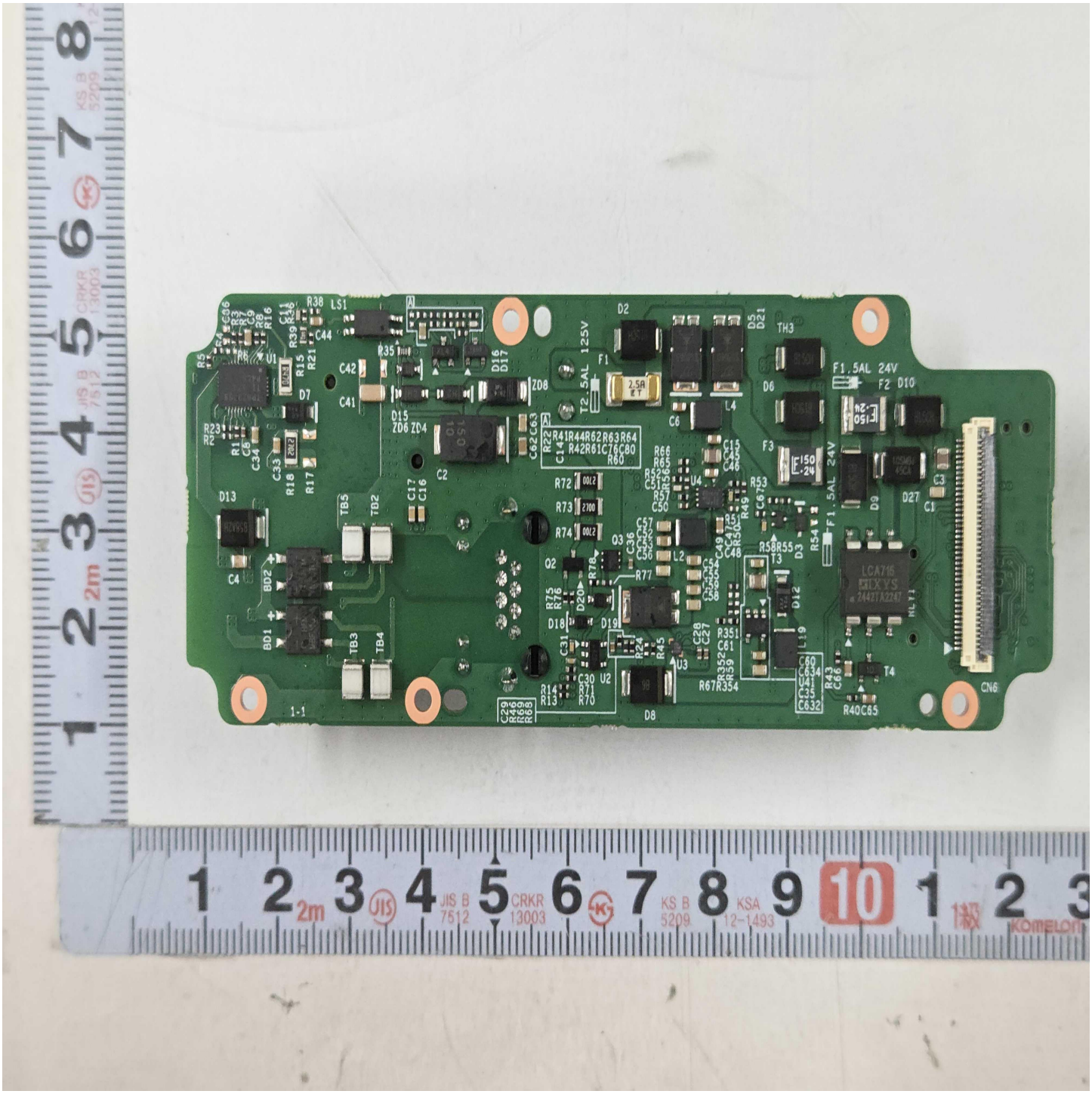
Photographs-07 Page-1



Photographs-08 Page-1



Photographs-09 Page-1



Photographs-10 Page-1

